## **Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A light source, comprising:

a light-emitting tube having a light-emitting portion that emits a light beam by an electric discharge between electrodes and sealing portions provided on both sides of the light-emitting portion;

a reflector that reflects the light beam emitted by the light-emitting portion forward after aligning in a predetermined direction;

a cover covering a light-irradiation opening of the reflector, the cover having an opening for irradiating the light beam reflected by the reflector and a heat-radiation fin formed on the outside thereof, the cover being made of a heat-conductive material that absorbs a heat generated by the light-emitting tube and conducts the absorbed heat to the heat-radiation fin; and

a transparent member that covers the opening of the cover.

(Original) The light source according to claim 1,
wherein the reflector is an ellipsoidal reflector having an ellipsoidal reflecting surface,

wherein a sub-reflection mirror that covers approximately half of the front side of the light emitting portion is provided in the light-emitting tube, the light-emitting tube being projected from a light-irradiation opening of the ellipsoidal reflector.

3. (Original) The light source according to claim 2, the cover comprising an approximately conic cylindrical heat absorber that is tapered from the light-irradiation opening of the reflector in a direction for the light to be irradiated.

- 4. (Original) The light source according to claim 3, wherein the heat-radiation fin is a plate provided on the outside of the heat-absorber extending in a direction orthogonal to the optical axis of the reflector.
- 5. (Original) The light source according to claim 2, wherein the transparent member is a parallelizing lens that parallelizes a convergent light irradiated by the ellipsoidal reflector.
- 6. (Original) The light source according to claim 5, wherein the parallelizing lens is a parallelizing concave lens having thickness of 2 mm or more along a direction for the light to be transmitted.
- 7. (Original) The light source according to claim 5, wherein the parallelizing lens is a parallelizing concave lens having an aspherical concave surface on a light-incident side thereof and a flat surface on a light-irradiation side thereof.
- 8. (Original) The light source according to claim 7, wherein the aspherical surface is a hyperboloid.
- 9. (Original) The light source according to claim 7, wherein an ultraviolet protection film that prevents transmission of ultraviolet is formed on the light-irradiation side of the parallelizing concave lens.
- 10. (Original) The light source according to claim 1, wherein the cover is made of ceramics and a hole for inserting an electrode-connecting wire of the light-emitting tube is formed on the cover.
- 11. (Original) A projector that modulates a light beam irradiated by a light source in accordance with image information to form an optical image and projects the optical image in an enlarged manner, comprising:
  - a light source according to claim 1.

12. (Original) The projector according to claim 11, further comprising a cooling device that cools the heat-radiation fin formed on the cover of the light source.

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13. (Original) The light source according to claim 11, wherein the reflector is an ellipsoidal reflector having an ellipsoidal reflecting surface,

wherein a sub-reflection mirror that covers approximately half of the front side of the light emitting portion is provided in the light-emitting tube, the light-emitting tube being projected from a light-irradiation opening of the ellipsoidal reflector.

- 14. (Original) The light source according to claim 13, the cover comprising an approximately conic cylindrical heat absorber that is tapered from the light-irradiation opening of the reflector in a direction for the light to be irradiated.
- 15. (Original) The light source according to claim 14, wherein the heat-radiation fin is a plate provided on the outside of the heat-absorber extending in a direction orthogonal to the optical axis of the reflector.
- 16. (Currently Amended) The light source according to claim 1113, wherein the transparent member is a parallelizing lens that parallelizes a convergent light irradiated by the ellipsoidal reflector.
- 17. (Original) The light source according to claim 16, wherein the parallelizing lens is a parallelizing concave lens having thickness of 2 mm or more along a direction for the light to be transmitted.
- 18. (Original) The light source according to claim 16, wherein the parallelizing lens is a parallelizing concave lens having an aspherical concave surface on a light-incident side thereof and a flat surface on a light-irradiation side thereof.
- 19. (Original) The light source according to claim 18, wherein the aspherical surface is a hyperboloid.

- 20. (Original) The light source according to claim 18, wherein an ultraviolet protection film that prevents transmission of ultraviolet is formed on the light-irradiation side of the parallelizing concave lens.
- 21. (Original) The light source according to claim 11, wherein the cover is made of ceramics and a hole for inserting an electrode-connecting wire of the light-emitting tube is formed on the cover.